

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	724	("johnston" near2 "james").in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 13:41
S2	27	("KUO" near2 SHYH? SHIAW).in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 13:45
S3	737	S1 or S2	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 13:45
S4	8	envelope.d.m. and S3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 13:48
S5	5	"10090544"	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:00
S6	2	cochlea\$1.d.m. and S3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:01
S7	82	noise?to?mask or noise mask \$3 ratio	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:02
S8	33767	filter near1 band	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:03
S9	10	S7 and S8	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:03

S10	9	quantiz\$5 and S9	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:03
S11	7	@ad<="20020304" and S10	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:03
S12	6	signal?to?noise mask ratio	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:08
S13	1725	critical near1 band	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:08
S14	6	@ad<="20020304" and S10 and S13	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:09
S15	3341	noise near1 mask\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:38
S16	16170	human (hear\$3 or cochlea \$1)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:48
S17	6464	noise near1 shap\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:48
S18	1724	mask\$3 near1 threshold	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:49
S19	28	S15 and S16 and S17 and S18	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:50

S20	1754	MDCT	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:52
S21	5	S15 and S16 and S17 and S18 and S20	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:52
S22	4	@ad<="20020304" and S21	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:56
S23	2	@ad<="20020304" and S21 and S13	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 14:58
S24	784	perceptual near1 model\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 15:17
S25	1	@ad<="20020304" and S21 and S13 and S24	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 15:17
S26	8910	rough\$4 near1 measur\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 15:34
S27	3	S24 and S26	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 15:34
S28	22	S15 and S26	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 15:35
S29	5	@ad<="20020304" and S28	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 15:35

S30	872	prediction near1 gain	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:18
S31	755	prediction adj1 gain	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:18
S32	103956	quantiz\$5	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:19
S33	6914	(auto?correlation)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:19
S34	50	S31 and S32 and S33	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:19
S35	4	S31 and S32 and S33 and S20	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:19
S36	2	@ad<="20020304" and S35	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:19
S37	2	"5699479".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:41
S38	148	perceptual near1 model\$3 with mask\$3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:59
S39	2	(perceptual near1 model\$3 with mask\$3).ti.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 16:59

S40	9	"6466912"	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 17:01
S41	2	"6466912".pn.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/09 17:02
S42	14	("4896362"   "5105463"   "5136377"   "5161210"   "5471558"   "5550924"   "5553193"   "5583967"   "5682463"   "5684920"   "5699479"   "5864820"   "5890125"   "5911128").PN.	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/11/09 17:02
S43	14	("4896362"   "5105463"   "5136377"   "5161210"   "5471558"   "5550924"   "5553193"   "5583967"   "5682463"   "5684920"   "5699479"   "5864820"   "5890125"   "5911128").PN.	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/11/10 09:46
S44	14	S43	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/11/10 09:46
S45	4	rough\$4 and S44	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/11/10 09:46
S46	2	"6466912".pn.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 09:48
S47	1	rough\$4 and S46	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/11/10 09:48
S48	89	signal near1 envelope with (noise near3 ratio)	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/11/10 09:51
S49	35	@ad<="20020304" and S48	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 09:51
S50	1755	MDCT	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 09:51
S51	0	S49 and S50	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 09:51

S52	724	("johnston" near2 "james").in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 13:54
S53	27	("KUO" near2 SHYH? SHIAW).in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 13:54
S54	737	S52 or S53	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 13:54
S55	20	(envelope or perceptual or roughness).clm. and S54	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 13:54
S56	13	@ad<="20020304" and S55	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 13:55
S57	1	"11395235"	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/10 14:07
S58	724	("johnston" near2 "james").in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 09:47
S59	27	("KUO" near2 SHYH? SHIAW).in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 09:47
S60	737	S58 or S59	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 09:47
S61	28	(cochlea or envelope or roughness or mask\$3).clm. and S60	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 09:48

S62	18	@ad<="20020304" and S61	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 09:48
S63	14	@pd<="20020304" and S61	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 09:55
S64	5	"10090544"	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 10:40
S70	4	(US-5864800-\$ or US-5481614-\$ or US-RE36714-\$ or US-5040217-\$).did.	USPAT	ADJ	ON	2009/11/17 13:34
S71	4	((noise or white noise) or (linear prediction) or (substitut\$3)) and S70	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 13:35
S72	704	(linear near1 prediction) with (white noise or noise)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 13:43
S73	3346	noise near1 mask\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 13:43
S76	28	S72 and S73	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 13:44
S77	19	@ad<="20020304" and S76	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 13:45
S78	13	(averag\$3) and S77	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 13:46
S80	9	(averag\$3) and S77 and power	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/17 13:50

S81	22542	((rais\$3) near2 (power))	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:42
S82	1306	perceptual near1 (audio or cod\$3)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:43
S83	69	S81 and S82	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:43
S84	875597	mask\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:43
S85	59	S81 and S82 and S84	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:43
S86	26	@ad<="20020304" and S85	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:43
S87	3346	noise near1 mask\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:57
S88	37	S81 and S87	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:57
S89	28	@ad<="20020304" and S88	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 09:57
S90	1795	(pure near1 tone)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:18



S91	196	S87 and S90	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:18
S92	4	S87 and S90 and S81	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:18
S93	4	@ad<="20020304" and S92	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:18
S94	54	S87 same S90	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:19
S95	11	S94 and S82	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:19
S96	7	@ad<="20020304" and S95	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:19
S97	724	("Johnston" near2 "James"). in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:26
S98	27	("KUO" near2 SHYH? SHIAW).in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:26
S99	737	S97 or S98	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:26
S100	28	(cochlea or envelope or roughness or mask\$3).clm. and S99	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:26

S101	14	@pd<="20020304" and S100	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:26
S102	1	S101 and S90	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:26
S103	3239	mask\$3 near2 ratio	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:32
S104	2	S103 same S90	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:32
S105	54	S87 same S90	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:54
S106	5	S87 same S90 same ratio	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:54
S107	5	@ad<="20020304" and S106	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 10:55
S108	77	("5956674").URPN.	USPAT	ADJ	ON	2009/11/18 10:56
S109	45	("4464783"   "4535472"   "4538234"   "4622680"   "4757536"   "4815074"   "4817146"   "4896362"   "4899384"   "4972484"   "5115240"   "5136377"   "5159611"   "5235623"   "5241535"   "5263088"   "5285498"   "5365553"   "5388181"   "5394473"   "5408580"   "5414795"   "5414796"   "5436940"   "5438643"   "5440596"   "5451954"   "5469474"   "5471206"   "5481614"   "5488665"   "5490170"   "5491773"   "5535300"   "5592584"   "5596676"	US-PGRUB; USPAT; USOCR	ADJ	ON	2009/11/18 10:57

		"5606642"   "5608713"   "5617145"   "5621856"   "5627938"   "5636324"   "5682461"   "5717764"   "5748903").PN.				
S111	11	S105 and S82	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:00
S112	7	@ad<="20020304" and S111	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:00
S113	673	(signal near1 energy) same normaliz\$5	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:21
S114	0	(signal near1 energy) same normaliz\$5 same (pure tone)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:22
S115	1	(energy or power) same normaliz\$5 same (pure tone)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:22
S116	20	(normaliz\$5 same (pure tone))	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:23
S117	11	@ad<="20020304" and S116	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:23
S118	5429	(normaliz\$5 same (pure tone or sine or sin or sinusoidal or tone))	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:26
S119	31	S103 and S118	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:27

S120	16	@ad<="20020304" and S119	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:27
S121	8	(normaliz\$5 with (pure tone))	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:30
S122	6	@ad<="20020304" and S121	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:30
S123	11	(normaliz\$5 same (pure tone) same (roughness or power spectrum or frequency))	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:33
S124	7	@ad<="20020304" and S123	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 11:33
S125	18	(averag\$3) same (white noise) same (theoretical)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:05
S126	11	@ad<="20020304" and S125	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:06
S127	6	(US-5864800-\$ or US-5481614-\$ or US-RE36714-\$ or US-5040217-\$ or US-6115689-\$ or US-6058362-\$).did.	USPAT	ADJ	ON	2009/11/18 13:07
S128	1	S127 and (theoretical)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:08
S129	3346	mask\$3 near1 noise	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:09

S130	0	S129 same theoretical same white noise	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:10
S131	0	S129 same theoretical same (white near1 noise)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:10
S132	3	S129 same theor\$6 same (white near1 noise)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:10
S133	13	S129 same theoretical same (noise)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:10
S134	11	@ad<="20020304" and S133	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:10
S135	1320	(power near1 spectrum near1 density)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:13
S136	137	S135 and (white near1 noise)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:13
S137	12	S135 and (theor\$6 same (white near1 noise))	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:13
S138	6	@ad<="20020304" and S137	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 13:13
S139	5	"10090544"	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 14:22

S140	1320	(power near1 spectrum near1 density)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:52
S141	38	S140 same (pure tone or sinusoidal or sin or sine or cosin?)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:54
S142	16	@ad<="20020304" and S141	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:55
S143	38	S140 same (tone pure tone or sinusoidal or sin or sine or cosin?)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:55
S144	92	S140 same (tone or pure tone or sinusoidal or sin or sine or cosin?)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:55
S145	221538	(power near1 spectrum near1 density) or roughness or (envelope same frequency)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:55
S146	6540	S145 same (tone or pure tone or sinusoidal or sin or sine or cosin?)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:55
S147	6540	S145 same (tone or pure tone or sinusoidal or sin or sine or cosin?)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:56
S148	359	"704".clas. and S147	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:56
S149	176	@ad<="20020304" and S148	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:56

S150	51	perceptual and S149	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 15:56
S151	11	(cochlea near3 compression)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:05
S152	4955	(S140 or normaliz\$5) same (pure tone or sinusoidal or sin or sine or cosin?)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:07
S153	20	(S140 or normaliz\$5) same (pure tone)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:07
S154	11	@ad<= "20020304" and S153	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:07
S155	27159	(S140 or normaliz\$5) same (sin\$7)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:13
S156	1087	(S140 or normaliz\$5) same (sinusoidal)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:13
S157	369	(S140 or normaliz\$5) with (sinusoidal)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:14
S158	16	"704".clas. and S157	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:14
S159	5	@ad<= "20020304" and S158	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:14

S161	0	704/200.100.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:18
S162	486	704/200.1.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:18
S163	23	S152 and S162	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:18
S164	16	@ad<="20020304" and S163	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/18 16:18
S165	122	((power near1 spectrum near1 density) or (roughness near1 measure) or roughness) with (sinusoidal or pure tone)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 09:53
S166	48	@ad<="20020304" and S165	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 09:53
S167	2	"704".clas. and S166	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 09:54
S168	51	(normaliz\$3 or normalization) near2 ((power near1 spectrum near1 density) or (roughness near1 measure) or roughness)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 09:56
S169	1	S168 and S165	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 09:56
S170	32	(pure tone or sinusoidal or sine wave or sine) near2 ((power near1 spectrum near1 density) or (roughness near1 measure) or roughness)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 09:58



S171	15	@ad<="20020304" and S170	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 09:58
S172	1	audio and S171	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 09:58
S173	874	prediction near1 gain	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 10:05
S174	6	S173 with (pure tone or sinusoidal or sine wave or sine)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 10:06
S175	6	@ad<="20020304" and S174	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 10:06
S176	37358	(signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 10:49
S177	24892	rais\$2 near3 power	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 10:49
S178	11	S176 same S177	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 10:50
S179	6	@ad<="20020304" and S178	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 10:50
S180	2	"7433819".pn.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:04

S181	34774	((signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density) same ((noise near1 mask \$3) or (noise near1 mask\$3 near1 ratio))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:13
S182	34774	((signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density) same ((noise near1 mask \$3) or (noise near1 mask\$3 near1 ratio)) same (pure tone or sinusoidal or sine wave or sine)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:14
S183	0	((signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density)) same ((noise near1 mask \$3) or (noise near1 mask\$3 near1 ratio)) same (pure tone or sinusoidal or sine wave or sine)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:14
S184	36	((signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density)) same ((noise near1 mask \$3) or (noise near1 mask\$3 near1 ratio))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:14
S185	30	@ad<="20020304" and S184	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:15
S186	14	S185 and (pure tone or sinusoidal or sine wave or sine)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:15
S187	1	((signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density)) same ((noise near1 mask \$3) or (noise near1 mask\$3 near1 ratio)) same (squar \$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:20

S188	11	((signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density)) same ((noise near1 mask \$3) or (noise near1 mask\$3 near1 ratio)) and (suar\$3)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:21
S189	10	@ad<="20020304" and S188	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:21
S190	751	((signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density)) with (suar\$3 or S177)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:24
S191	50	((signal near1 energy) or S173 or (roughness near1 (signal or measure)) or (spectrum near1 density)) with (suar\$3 or S177) with ratio	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:24
S192	28	@ad<="20020304" and S191	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:25
S193	246	(ear or cochlea\$1) near1 compress\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:26
S194	0	S193 with S177	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:29
S195	0	S193 same S177	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:29
S196	0	S193 with suar\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:29
S197	2	S193 same suar\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:29

S198	0	S191 same S177	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:30
S199	1	S191 and S177	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 11:30
S201	24892	rais\$2 near3 power	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:49
S202	171	(noise near1 mask\$3) near1 (ratio or threshold)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:53
S203	7	(order or S201) with S202	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:53
S204	3	@ad<= "20020304" and S203	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:53
S205	27	(order or S201) same S202	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:54
S206	12	@ad<= "20020304" and S205	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:54
S207	874	prediction near1 gain	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:56
S209	34774	(signal near1 energy) or S207 or (roughness near1 (signal or measure)) or (spectrum near1 density) same ((noise near1 mask \$3) or (noise near1 mask\$3 near1 (threshold or ratio)))	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:56

S210	1564	S209 same (S202 or squar \$3)	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:57
S211	17	704/200.1.cds. and S210	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:58
S212	10	@ad<="20020304" and S211	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 12:58
S213	384	rais\$2 near3 ("4"\$2) near1 power	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:05
S214	16	S209 and S213	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:06
S215	15	@ad<="20020304" and S214	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:06
S216	10	"704".clas. and S213	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:07
S217	2	@ad<="20020304" and S216	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:07
S218	725	("johnston" near2 "james"). in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:08
S219	27	("KUO" near2 SHYH? SHIAW).in.	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:08

S220	738	S218 or S219	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:08
S221	28	(cochlea or envelope or roughness or mask\$3).clm. and S220	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:08
S222	18	@ad<= "20020304" and S221	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:08
S223	4	S222 and rais\$3	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:08
S224	12	S222 and power	US-PGRUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/11/19 13:09

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